

CLAIMS

What is claimed is:

1. An intelligent network server, comprising:
 - a message transport module for receiving messages from a communications network;
 - at least one subsystem coupled to the message transport module, running an application for performing network services or functions;
 - an operations management module coupled to the message transport module and the at least one subsystem, performing local operations management for the application.
2. The intelligent network server of Claim 1 comprising a plurality of subsystems coupled to the message transport module, running a plurality of applications for performing network services or functions.
3. The intelligent network server of Claim 2 wherein the operations management module performs local operations management for the plurality of applications.
4. The intelligent network server of Claim 1 wherein the operations management module reports a unified status of the intelligent network server via the message transport module.
5. The intelligent network server of Claim 1 wherein the operations management module monitors events for the application.

1 6. The intelligent network server of Claim 5 wherein the operations management
2 module creates an event log recording the history of events for the application.

1 7. The intelligent network server of Claim 5 wherein the operations management
2 module processes the events of the applications to determine the status of the
3 application.

1 8. The intelligent network server of Claim 5 wherein the operations management
2 module processes the events of the application using predetermined performance
3 characteristics for the application to determine the status of the application.

1 9. The intelligent network server of Claim 3 wherein the operations management
2 module determines the individual status of each of the plurality of applications.

1 10. The intelligent network server of Claim 1 wherein the operations management
2 module initiates corrective measures to avoid a fault or error condition for the application
3 or to enhance performance of the application.

1 11. The intelligent network server of Claim 10 wherein the corrective measures
2 comprise routing network messages to another application.

130, 12. The intelligent network server of Claim 9 wherein the operations management
2 module homogenizes the individual status of each of the applications to determine a
3 unified status of the intelligent network server.

1 13. The intelligent network server of Claim 4 wherein the unified status is indicative of
2 the overall status of the intelligent network server.

1 14. The intelligent network server of Claim 4 wherein the unified status is reported in
2 the same manner as the status of any other network device or node in the network.

1 15. The intelligent network server of Claim 9 wherein uniform criteria is used to
2 indicate the status of each of the applications.

1 16. The intelligent network server of Claim 1 wherein the operations management
2 module identifies when a fault or error condition for the application may occur or is
3 occurring.

1 17. The intelligent network server of Claim 1 wherein the network is a public switched
2 telephone network or PSTN.

1 18. The intelligent network server of Claim 4 wherein the unified status is reported to
2 network operations management.

13/ 19. The intelligent network server of Claim 18 wherein the network operations
2 management is performed on a network device remote from the intelligent network
3 server.

1 20. The intelligent network server of Claim 1 wherein the local operations
2 management is integrated with the transactions-level processing of the applications.

1 21. A network system, comprising:
2 a communications network;
3 an intelligent network server coupled to the communications network performing
4 local operation management for subsystems on the intelligent network server; and
5 a network operations management device coupled to the communications
6 network.

13/ 22. The network of Claim 21 wherein the local operations management on the
2 intelligent network server reports a unified status message to the network operations
3 management, where the message is indicative of the overall status of the subsystems on
4 the intelligent network server.

28/ 14/ 23. The network of Claim 22 wherein the message is reported in the same manner as
2 the status of any other network device or node in the network.

1 24. The network of Claim 22 wherein the message is an SS7 message.

1 25. An intelligent network server comprising:

- 2 - means for performing operations management for multiple applications on an
- 3 intelligent network server; and
- 4 - means for reporting a unified status for the intelligent network server to network
- 5 operations management.

1 26. A method of performing operations management on an intelligent network server,
2 comprising:

- 3 performing local operations management for multiple applications on an intelligent
- 4 network server; and
- 5 reporting a unified status for the intelligent network server to network operations
- 6 management.

1 27. The method of Claim 26 wherein the unified status is determined from the
2 individual status of each of the applications running on the intelligent network server.

1¹⁴/₂₃ 28. The method of Claim 26 wherein the unified status is reported in the same manner
2 as the status of any other network device or node in the network.

1 29. The method of Claim 26 wherein performing local operations management
2 comprises:

- 3 monitoring events of each application;

4 processing the events using predetermined performance criteria for the
5 applications; and
6 determining the individual status of each application.

1 30. The method of Claim 29 further comprising homogenizing the individual status of
2 each application into the unified status for the intelligent network server.

1 31. The method of Claim 26 wherein the network operations management is
2 performed on a network device remote from the intelligent network server.

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